M. A. R. 57 (Rule 116) **No. D**

Measurement Book

Serial No. 1st and final Bill 226007

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency..... Technical Manager (West) KRIDL, Bangalore.

Date of commencement of work..... D-O-Recordg. 18-01-2019

Date	Full description, etc, of work	Number	Dimensions: Length	Dimensions: Breadth	Dimensions: Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Name of work : Irrop. to Roads and drains in surrodg area in Ward no. 12, Shettyhalli sub-Division						
	Estimated cost Rs. : 50.00 Lakhs						
	JOB. no : 012-18-000004					pcode - P-3832	
	Work order no : EE/001/220/37/2018-19					dt. 11-09-2018	
①	Earthwork Excavation by manual means in ordy soil including an average horizontal throw upto 2 m and lift upto 1.5 m						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Left upto 1.50m, Excavated surfaces levelled and strong neatly dressed, the dressed earth to be levelled neatly after breaking clods complete as per specification of directing Engineer-in-charge work.						
	qty vide this mbs. p.no ①						
	p.no - 226076					694.404	
						@ 175.96/-	122116.24
2)	Providing and laying in position plain cement concrete work in 1:4:8 with ope cement @ 150 kgs with 40mm and down size graded granite metal coarse aggregate 0.85 cft and fine aggregate 0.57 cft machine mixed, concrete laid in layers not						

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Serial No. .....
226008
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	exceeding 15cms thick well compacted in foundation including cutting all material, labour, hoisting, mixing complete as per specifications and directing Engineer-in-charge work.						
	qty vide this mbs. p.no - 226077						
	₹ no ①	1	104.10			5155.02	537053.98
(3)	Providing and laying in position reinforced cement concrete work in M.20 with ope cement @ 320 kgs with 20mm and down size graded granite metal coarse aggregate 0.44 cft and fine aggregate 0.46 cft, with super plasticizer @ 2kg confirming to IS						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	1990-1999 Reclaimed - 2008, machine mixed concrete laid in layers not exceeding 15cms thick, vibrated for all Works in Pond for footings, pedestals, retaining walls, staircase, return walls, Retaining Walls, Walls (any thickness) including attached pilasters, columns etc including cost of all material, labour, hire of machinery etc complete as per specifications and direction of Engineer-in-charge WORK.						
	(a) for drain Bottom	qty	side thk	MB	p.no.	226089	
			# no.	⑤ =		94.534	
	for drain side Walls						
	cross-Road 4) - WO315 4)	2×1	30.60	0.75	0.65	5.85	
		2×1	10.60	0.75	0.65	1.95	
	R)	4×2	30.60	0.15	0.65	23.40	
		2×1	8.60	0.15	0.65	1.56	

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226009

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	CRoss Road - R) - WO317	6×2	30.60	0.15	0.70	= 37.80	
	4)	2×1	10.60	0.15	0.70	2.10	
	R)	6×2	30.60	0.15	0.70	37.80	
		2×1	10.60	0.15	0.65	1.95	
	Culverts - Decc slabs	1×1	6.90	1.50	0.25	2.37	
		1×1	6.85	1.50	0.25	2.37	
	Ramp	4×1	6.80	0.30	0.15	= 2.04	
						Total 214.149 m³	
						Ltd 4 212.70 m³	
						@ 6371.46 /m³	17,61,623=74
	(4) provided constantly granite/trap/ boulder stone stone masonry						

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	In basement storey in C.M. mortar 1:6, R.R. masonry in stone chicks & rounds in courses not less than 150 mm high bonded and set in 24 mm thick in each course including curing, material, labour, etc. complete as per specification and directions of Engineer-in-charge of work.						
	2/3 of RR wall for Cor	2	6.90	0.63	1.00	8.55	
	Cor	2	6.85	0.63	1.50	8.63	
						17.18 sqm	
						Add 16.80 sqm	
						@ 5305.80/sqm	89157.44
5)	Providing and removing centering, shuttering, shoring, propping etc. and removing form work for vertical, battered, curved or inclined surfaces in any thickness, including attached pilasters, buttresses						

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226010

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Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	plinth, cills and string courses, costing all materials, labour, complete as per specification at directions of Engineer-in-charge of the work.						
	Qty vide MB. No. ④						
	pg no. 226 to					1683.60 sqm	
						@ 310.58/sqm	522892.49
6)	Providing mtg. steel reinforcement for RCC work excluding straightening, cutting, bending, hooking, placing in position, lapping and or welding wherever required / tying with binding						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Wire and anchoring to the adjoining members wherever necessary complete as per design, carriage of materials, labour, tools & machinery, Complete as per specifications and directions of Engineer-in-charge of the work.						
						Qty vide this MB. Item (5)	
						Prev. 226078 = 14.09 Tonne	
						CCA 2143.42/7 Rs.	905389.79
7)	Providing and laying reinforced cement precast slabs of mix. C.C 1:1½:3 using 20mm and down size graded granite metal using HYSD 10mm dia steel @ 100mm c/c both						

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226011

Serial No. .....
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Date of commencement of work.....

Date	Full description, etc, of work		Dimensions			Contents	Reference to last Measurement
			Number	Length	Breadth	Depth		
1	2		3	4	5	6	7	8
	Ways at complete as per specification.							
	a) Cross Road (L) / 20137	RS	4×1	30.00	0.90	-	108.00	
			1×1	8.00	0.90	-	7.20	
		LS	1×1	30.00	0.90	-	27.00	
			1×1	10.00	0.90	-	9.00	
	b- Cross Road-RS / 20137	LS	6×1	30.00	0.90	-	162.00	
			1×1	10.00	0.90	-	9.00	
		RS	6×1	30.00	0.90	-	162.00	
			1×1	10.00	0.90	-	9.00	

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Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Missing slab	2 nos	26.50	0.90	-	47.70	
		1	27.80	0.90	-	25.02	
		1	8.50	0.90	-	7.65	
						573.57	
					Total	573.20 sqm	
					@	168/sqm	962976.00
					Total A		45,09,989.68
		Deduct	11%		AMOUNT	Chg'd	4,95,108.86
					G. Total R		49,96,098.54

Ckd & Rec
18/1/2019

18/01/2019

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226012

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
					W05/17		
					W03/19		
	Shethyhdy Roadway						

18/01/2019

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